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# PLATTSBURGH AIR FORCE BASE

# INVESTIGATION OF CONTAMINATED MATERIAL AND SOIL EXPLOSIVE ORDNANCE DISPOSAL RANGE: IRP SITE SS-26

# INVESTIGATORY WORK PLAN (Draft Final)

## INTRODUCTION

The former Explosive Ordnance Disposal (EOD) Range (SS-26) is an 8-acre area located in the southwest portion of Plattsburgh AFB. Scattered debris was identified south of the EOD range along a steep slope north of the Salmon River in an area termed the Satellite Fill Area. URS Consultants, Inc. sampled the area and presented their findings in the *April 2000 Draft Final EOD Range Site Investigation Report.* They found elevated polycyclic aromatic hydrocarbons (PAHs) naphthalene, dibenzofuran, phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, ideno (1,2,3-cd) pyrene, and dibenz(a,h) anthracene above the NYSDEC TAGM 4046 cleanup objectives in a soil sample associated with a tar-like substance located in soils at the surface of EOD-TP-11 shown in Figure 1. Plattsburgh AFB personnel plan to investigate the extent of this tar-like substance and remove and dispose of any of the tar-like material and associated contaminated soils as part of this investigation.

## FIELD ACTIVITES

In October 2001, Versar and its subcontractor will mobilize equipment, manpower, tools, materials, supplies and miscellaneous support equipment to complete the investigatory project.

The area will be cleared and grubbed to provide access to the hillside and to identify all the tar-like material and debris beneath existing vegetation. A small track-hoe with a front-end bucket and hand tools will be used to excavate the tar-like material and potentially contaminated soils. The extent of the area to be investigated is approximately 10 ft. by 10 ft. or less in area, and no more than 6 inches deep. The planned excavation will be a 15 ft. by 15 ft. area, approximately 9 to 12 inches deep A roll-off box will be staged on Visqueen in a flat area atop the hill. The excavated material (i.e. tar-like substance, debris and soils) will be loaded into the track-hoe bucket and deposited into the roll-off container awaiting off-site disposal. The roll-off container will be covered with a tarp after the loading operation has been completed. The surficial contamination is estimated to be 10-15 tons. Photoionization Detector (PID) headspace readings of the soil will be taken to determine if any readings exceed background levels. If PID readings exceed background levels by 5 ppm, or if any odors or soil discoloration are observed, the impacted area will also be excavated. In addition, all surficial and subsurface debris will be collected, placed into the roll-off container, and properly removed



Attach 12

Following removal of the tar-like substance, debris and potentially impacted soils, Versar will collect confirmation samples to confirm that the limits of the excavation do not exceed the NYSDEC TAGM 4046 (Appendix A, Table 2, Column 9) Recommended Cleanup Objectives (RCOs) for the above PAH analytes. The entire intrusive investigation will be completed in an 8-hour period.

If, after the initial excavation, any other areas of contaminated soil are identified, Versar will selectively excavate the impacted area and re-sample until soil PAH analyte concentrations no longer exceed the NYSDEC TAGM RCOs. Versar will backfill the excavation with certified clean fill and perform the necessary site restoration activities after Plattsburgh AFB personnel and the regulatory agencies have reviewed and approved the confirmatory soil sample analytical data. The excavation will also be properly protected with hay bales, a silt fence, if needed, and a tarp placed over the open excavation until confirmation samples and regulatory review indicate it is acceptable to begin the backfilling operation. As part of demobilization, the Visqueen liner and associated soils will be placed into the roll-off container for disposal.

Given the low concentrations of chemical compounds of concern, the laborers and equipment operators will utilize Level D Personal Protective Equipment (PPE) with a contingency for upgrade to Level C, should PID monitoring in the breathing zone indicate the need. Field activities, including decontamination procedures, will be conducted using the procedures defined in the previously prepared Work Plan, Health & Safety Plan and Quality Assurance Project Plan for OTH 3505-1 and 3505-2.

Although the area has previously been inspected and cleared by EOD personnel, EOD personnel from Fort Drum, NY will be contacted and asked for their presence, once the work is scheduled.

## INVESTIGATORY CONFIRMATION SAMPLING

The limits of the excavation will be sampled for semi-volatile organic compounds (SVOCs) and analyzed by EPA Method 8270b. Since the extent of contamination and thus the limits of the excavation are only estimated at this time, the proper number of confirmation samples cannot be determined. Consultation with regulatory agencies via a conference call during and after planned excavation will be performed to arrive at sample number consensus. If contamination other than the "tar-like substance is discovered, the regulatory agencies will be consulted to discuss whether the scope of laboratory analytical work needs to be amended. Versar will follow the sampling and QA/QC protocols and procedures outlined in EPA SW-846. All analytical data will be Level 3 validated and a validation package prepared and submitted.

## WASTE MANAGEMENT

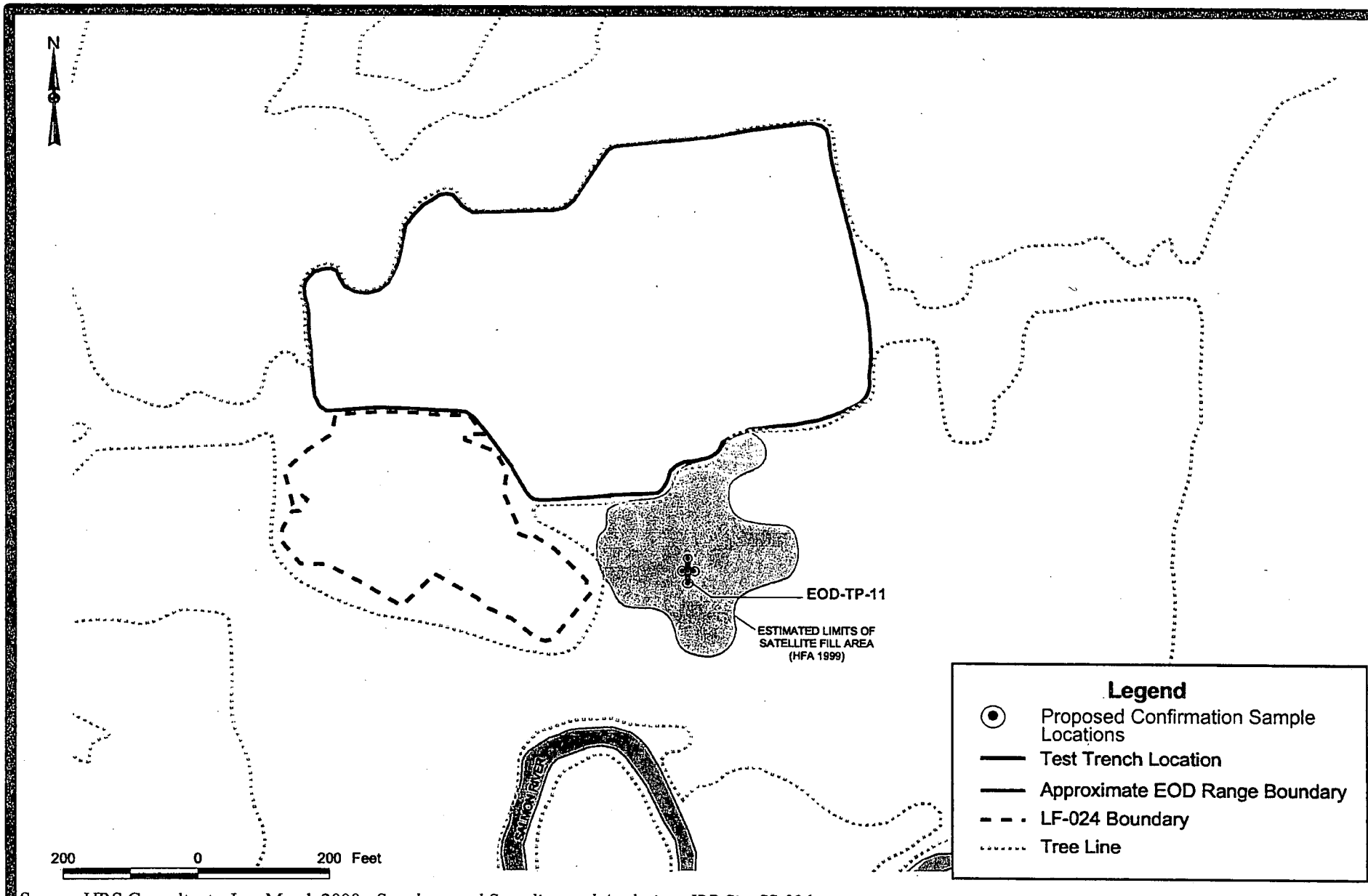
The tar-like substance, debris, and SVOC-contaminated soils contained in the roll-off container are not anticipated to be hazardous and will be disposed at a solid waste landfill, probably the Waste Management High Acres Landfill in Rochester, NY. TCLP testing of the material will be performed as part of the disposal testing requirements to confirm that the material is not hazardous. A permitted waste hauler will supply the one 20 cubic yard roll-off container and off-site transportation. If the material is found to be RCRA regulated, it will be properly manifested, transported to, and disposed of, at a licensed TSCA/RCRA treatment, storage, and disposal facility (TSDF) by a licensed hauler.

## REPORTING

Following completion of all field activities, a closure report will be prepared that includes the following:

- Narrative of field activities, including a photographic log and detailed figures;
- Summary of analytical results (post-excavation sampling, and disposal analysis requirements, including a data-validation package);
- Clean backfill soil certification, analytical data, and origin;
- Disposal manifests or bills of lading;
- If applicable, any additional EOD/UXO information pertinent to this area, and;
- Conclusions and recommendations.

The report will be submitted in Draft, Draft Final, and Final versions, with response to regulatory agencies' comments incorporated into the Draft Final and Final versions.




Source: URS Consultants, Inc. March 2000. *Supplemental Sampling and Analysis at IRP Site SS-026*

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**FIGURE 1. SS-026 - EOD RANGE**
**Site Plan / Sample Location**
**Plattsburgh AFB**